

Water Quality Standards -- Freshwater Temperature Criteria (°C) -- June 2002

	Washington's Current Proposal (June 2002)	WFPA Proposal (as of 2/2001)		Sullivan et al.	Existing Criteria
	7-DADM	7-DADM	Acute 1- Day Max.	7-DADM	1-Day Maximum
	(applied year-round)	(applied year-round)		(applied year- round)	(applied year- round)
Spawning and Juvenile Rearing of Bull Trout and Dolly Varden (Char)	13°	13°	20°	--	--
Migration of Bull Trout and Dolly Varden (Char)	--	--	--	--	--
Spawning and Rearing of Salmon, Steelhead, and Trout	16°	16°	26°	16.5°	16° (AA) & 18° (A)
Rearing Only of Salmon, Steelhead and Trout	17.5°	--	--	--	21° (B)
Steelhead Smoltification	--	--	--	--	--
Migration of Salmon, Steelhead, and Trout	--	--	--	--	--
Rearing of Redband Trout	18°	20°	26°	20.5°	--
Warm Water Fish	20°	--	--	--	--
Mixing Zone Limit	33°	--	--	--	--

	Ecology's Post-Public Comment Proposal (December 2001)			Ecology's Pre-Public Comment Proposal (December 2000)		EPA Regional Temperature Project		
	21-Day Average	7-DADM	1-Day Max.	7-DADM	1-Day Max.	Weekly Mean	7-DADM	1-Day Max.
	(applied seasonally)			(applied seasonally)		(applied seasonally)		
Spawning and Juvenile Rearing of Bull Trout and Dolly Varden (Char)	--	11.5°	--	10°	13°	--	--	12°
Migration of Bull Trout and Dolly Varden (Char)	--	--	--	12°	14.5°	--	--	12°
Spawning of Salmon, Steelhead, and Trout	9°	13°	--	12°	14.5°	10°	13°	--
Rearing of Salmon, Steelhead and Trout	14°	17°	--	15°	17.5°	15°	16°	--
Steelhead Smoltification	--	--	--	--	--	12°	14°	--
Migration of Salmon, Steelhead, and Trout	--	--	--	--	--	16°	--	--
Rearing of Redband Trout	16°	18°	--	18°	20.5°	--	20°	--
Warm Water Fish	--	20°	25°	20°	22.5°	--	--	--
Mixing Zone Limit	--	--	33°	--	33°	--	--	24°

For all streams, the 1-Day Maximum > 7-DADM > Weekly Mean > 21-Day Average

The “21-Day Average” is the running 21-day average of the daily averages. It is an average of the daily averages, not an average of the daily maximums.

The “7-DADM” is the running seven-day average of the daily maximum temperatures. The “Weekly Mean” is the running seven-day average of the daily averages.

Bull Trout and Dolly Varden (Char), Warm Water Fish, and Redband Trout are not included in the current standards.

Migration of Bull Trout and Dolly Varden is not included in the proposed standards. Those streams would be protected under other uses, such as Salmon Spawning and Rearing.

Steelhead Smoltification is not a separate designated use in the current or proposed standards.

Migration of Salmon, Steelhead, and Trout are included in the Rearing category.

The Regional Temperature Project did not address Warm Water Fish.

The Mixing Zone Limit is for hot water dischargers where fish can be entrained for more than one to two seconds (not 7-DADM). The Regional Temperature Project criterion is instantaneous end-of-pipe.

Steelhead would be grouped with Redband Trout (not Salmon) in the WFPA and Sullivan alternatives.